

Daily Analysis Runlog For Sequence/QC Batch ID # LB92990

Review By

Review On

SubDirectory

LB92990

Test :

Anions

STD. NAME	STD REF.#
ICAL Standard	WP61149,WP61150,WP61151,WP61152,WP61153,WP61154,WP61155
ICV Standard	WP61156
CCV Standard	WP61453
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP61454
Chk Standard	WP60667,WP60668

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	01/22/18 12:09		
2	STD2	STD2	CAL2	01/22/18 12:39		
3	STD3	STD3	CAL3	01/22/18 13:10		
4	STD4	STD4	CAL4	01/22/18 13:41		
5	STD5	STD5	CAL5	01/22/18 14:12		
6	STD6	STD6	CAL6	01/22/18 14:43		
7	STD7	STD7	CAL7	01/22/18 15:14		
8	ICV1	ICV1	ICV	01/23/18 10:45		
9	ICB1	ICB1	ICB	01/23/18 11:23		
10	CCV1	CCV1	CCV	01/29/18 11:14		
11	CCB1	CCB1	CCB	01/29/18 11:45		
12	LB92990BLW	LB92990BLW	MB	01/29/18 12:16		
13	LB92990BSW	LB92990BSW	LCS	01/29/18 12:47		
14	J1364-14	MW-03	SAM	01/29/18 17:33		
15	J1364-15	MW-04	SAM	01/29/18 18:04		
16	J1364-15DUP	MW-04DUP	DUP	01/29/18 18:35		
17	J1364-15MS	MW-04MS	MS	01/29/18 19:06		
18	J1364-16	MW-05	SAM	01/29/18 19:37		
19	J1364-17	MW-07	SAM	01/29/18 20:08		
20	CCV2	CCV2	CCV	01/29/18 20:39		
21	CCB2	CCB2	CCB	01/29/18 21:09		



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Report of Analysis

Client:		Date Collected:	1/29/2018 12:00:00 AM
Project:	LB92990	Date Received:	1/29/2018 12:00:00 AM
Client Sample ID:	MW-03	SDG No.:	LB92990
Lab Sample ID:	J1364-14	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	7.6		1	0.066		0.5	mg/L		01/29/2018	300.0
	Chloride	6370	OR	1	0.075		0.15	mg/L		01/29/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		01/29/2018	300.0
	Nitrate	0.32		1	0.027		0.13	mg/L		01/29/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		01/29/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		01/29/2018	300.0
	Sulfate	419	OR	1	0.13		0.75	mg/L		01/29/2018	300.0



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Report of Analysis

Client:		Date Collected:	1/29/2018 12:00:00 AM
Project:	LB92990	Date Received:	1/29/2018 12:00:00 AM
Client Sample ID:	MW-04	SDG No.:	LB92990
Lab Sample ID:	J1364-15	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	7.3		1	0.066		0.5	mg/L		01/29/2018	300.0
	Chloride	6360	OR	1	0.075		0.15	mg/L		01/29/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		01/29/2018	300.0
	Nitrate	0.3		1	0.027		0.13	mg/L		01/29/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		01/29/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		01/29/2018	300.0
	Sulfate	415	OR	1	0.13		0.75	mg/L		01/29/2018	300.0



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Report of Analysis

Client:		Date Collected:	1/29/2018 12:00:00 AM
Project:	LB92990	Date Received:	1/29/2018 12:00:00 AM
Client Sample ID:	MW-05	SDG No.:	LB92990
Lab Sample ID:	J1364-16	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	7.7		1	0.066		0.5	mg/L		01/29/2018	300.0
	Chloride	6550	OR	1	0.075		0.15	mg/L		01/29/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		01/29/2018	300.0
	Nitrate	0.29		1	0.027		0.13	mg/L		01/29/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		01/29/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		01/29/2018	300.0
	Sulfate	434	OR	1	0.13		0.75	mg/L		01/29/2018	300.0



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Report of Analysis

Client:		Date Collected:	1/29/2018 12:00:00 AM
Project:	LB92990	Date Received:	1/29/2018 12:00:00 AM
Client Sample ID:	MW-07	SDG No.:	LB92990
Lab Sample ID:	J1364-17	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	7.4		1	0.066		0.5	mg/L		01/29/2018	300.0
	Chloride	6370	OR	1	0.075		0.15	mg/L		01/29/2018	300.0
	Fluoride	0.14		1	0.043		0.1	mg/L		01/29/2018	300.0
	Nitrate	0.3		1	0.027		0.13	mg/L		01/29/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		01/29/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		01/29/2018	300.0
	Sulfate	415	OR	1	0.13		0.75	mg/L		01/29/2018	300.0



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Report of Analysis

Client:		Date Collected:	1/29/2018 12:00:00 AM
Project:	LB92990	Date Received:	1/29/2018 12:00:00 AM
Client Sample ID:	MW-07	SDG No.:	LB92990
Lab Sample ID:	J1364-17	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92990

SDG No.: LB92990

Contract: _____ Lab Code: CHEM

Case No.: LB92990

SAS No.: LB92990

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Bromide	9.3	10	93		90 - 110		01/23/2018	10:45	lb92990
	Chloride	2.8	3	93.3		90 - 110		01/23/2018	10:45	lb92990
	Fluoride	1.9	2	95		90 - 110		01/23/2018	10:45	lb92990
	Phosphorus, Ortho	4.6	5	92		90 - 110		01/23/2018	10:45	lb92990
	Nitrite	2.8	3	93.3		90 - 110		01/23/2018	10:45	lb92990
	Nitrate	2.3	2.5	92		90 - 110		01/23/2018	10:45	lb92990
	Sulfate	14	15	93.3		90 - 110		01/23/2018	10:45	lb92990



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92990

SDG No.: LB92990

Contract: **Lab Code:** CHEM

Case No.: LB92990

SAS No.: LB92990

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result	True Value	%	Acceptance	M	Analysis	Analysis	Run
		mg/L		Recovery					
CCV1	Bromide	9.5	10	95	90 - 110		01/29/2018	11:14	lb92990
	Chloride	2.9	3	96.7	90 - 110		01/29/2018	11:14	lb92990
	Fluoride	2	2	100	90 - 110		01/29/2018	11:14	lb92990
	Phosphorus, Ortho	4.8	5	96	90 - 110		01/29/2018	11:14	lb92990
	Nitrite	2.8	3	93.3	90 - 110		01/29/2018	11:14	lb92990
	Nitrate	2.4	2.5	96	90 - 110		01/29/2018	11:14	lb92990
	Sulfate	13.9	15	92.7	90 - 110		01/29/2018	11:14	lb92990
CCV2	Bromide	9.6	10	96	90 - 110		01/29/2018	20:39	lb92990
	Chloride	3.1	3	103.3	90 - 110		01/29/2018	20:39	lb92990
	Fluoride	1.8	2	90	90 - 110		01/29/2018	20:39	lb92990
	Phosphorus, Ortho	6.2	5	124	90 - 110	*	01/29/2018	20:39	lb92990
	Nitrite	2.9	3	96.7	90 - 110		01/29/2018	20:39	lb92990
	Nitrate	2.4	2.5	96	90 - 110		01/29/2018	20:39	lb92990
	Sulfate	14.1	15	94	90 - 110		01/29/2018	20:39	lb92990



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92990

SDG No.: LB92990

Contract:

Lab Code: CHEM

Case No.: LB92990

SAS No.: LB92990

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Bromide	0.066	+/-0.5	U		0.5		01/23/2018	11:23	lb92990
	Chloride	0.075	+/-0.15	U		0.15		01/23/2018	11:23	lb92990
	Fluoride	0.043	+/-0.1	U		0.1		01/23/2018	11:23	lb92990
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/23/2018	11:23	lb92990
	Nitrite	0.022	+/-0.15	U		0.15		01/23/2018	11:23	lb92990
	Nitrate	0.027	+/-0.13	U		0.13		01/23/2018	11:23	lb92990
	Sulfate	0.13	+/-0.75	U		0.75		01/23/2018	11:23	lb92990



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92990

SDG No.: LB92990

Contract:

Lab Code: CHEM

Case No.: LB92990

SAS No.: LB92990

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Bromide	0.066	+/-0.5	U		0.5		01/29/2018	11:45	lb92990
	Chloride	0.075	+/-0.15	U		0.15		01/29/2018	11:45	lb92990
	Fluoride	0.043	+/-0.1	U		0.1		01/29/2018	11:45	lb92990
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/29/2018	11:45	lb92990
	Nitrite	0.022	+/-0.15	U		0.15		01/29/2018	11:45	lb92990
	Nitrate	0.027	+/-0.13	U		0.13		01/29/2018	11:45	lb92990
	Sulfate	0.13	+/-0.75	U		0.75		01/29/2018	11:45	lb92990
CCB2	Bromide	0.066	+/-0.5	U		0.5		01/29/2018	21:09	lb92990
	Chloride	0.075	+/-0.15	U		0.15		01/29/2018	21:09	lb92990
	Fluoride	0.043	+/-0.1	U		0.1		01/29/2018	21:09	lb92990
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/29/2018	21:09	lb92990
	Nitrite	0.022	+/-0.15	U		0.15		01/29/2018	21:09	lb92990
	Nitrate	0.027	+/-0.13	U		0.13		01/29/2018	21:09	lb92990
	Sulfate	0.13	+/-0.75	U		0.75		01/29/2018	21:09	lb92990



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB92990

SDG No.:

LB92990

Contract:

Lab Code:

CHEM

Case No.:

LB92990

SAS No.:

LB92990

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB92990

SDG No.: LB92990

Instrument: IC-1

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB92990BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		01/29/2018	12:16	lb92990
	Chloride	0.075	<0.15	U		0.15		01/29/2018	12:16	lb92990
	Fluoride	0.043	<0.1	U		0.1		01/29/2018	12:16	lb92990
	Phosphorus, Ortho	0.01	<0.25	U		0.25		01/29/2018	12:16	lb92990
	Nitrite	0.022	<0.15	U		0.15		01/29/2018	12:16	lb92990
	Nitrate	0.027	<0.13	U		0.13		01/29/2018	12:16	lb92990
	Sulfate	0.13	<0.75	U		0.75		01/29/2018	12:16	lb92990



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92990 **level:** low **sdg no.:** LB92990
contract: **lab code:** CHEM **case no.:** LB92990 **sas no.:** LB92990
matrix: WATER **sample id:** J1364-15 **client id:** MW-04MS
Percent Solids for Sample: 0 **Spiked ID:** J1364-15MS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Bromide	mg/L	80 - 120	17.2		7.3		10	99		
Chloride	mg/L	80 - 120	5740	OR	6360	OR	3	-20667	*	
Fluoride	mg/L	80 - 120	2.3		0.043	U	2	115		
Phosphorus, Ortho	mg/L	80 - 120	7.2		0.01	U	5	144	*	
Nitrite	mg/L	80 - 120	0.71		0.022	U	3	23.7	*	
Nitrate	mg/L	80 - 120	2.7		0.3		2.5	96		
Sulfate	mg/L	80 - 120	393	OR	415	OR	15	-147	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB92990 **Level:** LOW **SDG No.:** LB92990
Contract: _____ **Lab Code:** CHEM **Case No.:** LB92990 **SAS No.:** LB92990
Matrix: WATER **Sample ID:** J1364-15 **Client ID:** MW-04DUP
Percent Solids for Sample: 0 **Duplicate ID** J1364-15DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	7.3		6.7		9		
Chloride	mg/L	20	6360	OR	6400	OR	1		
Fluoride	mg/L	20	0.043	U	0	U			
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	0.3		0.31		3		
Sulfate	mg/L	20	415	OR	415	OR	0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92990

SDG No.: LB92990

Contract:

Lab Code: CHEM

Case No.: LB92990

SAS No.: LB92990

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB92990BSW							
Bromide	mg/L	10	9.7		97	90 - 110	
Chloride	mg/L	3	3		100	90 - 110	
Fluoride	mg/L	2	2		100	90 - 110	
Phosphorus, Ortho	mg/L	5	5.5		110	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Sulfate	mg/L	15	14.3		95.3	90 - 110	
